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Rapeseed Crushing and Refining Industry
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THE
RAPESEED CRUSHING
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THE
RAPESEED CRUSHING
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TABLE 1

ACREAGE, YIELD AND PRODUCTION OF RAPESEED IN ALBERTA

AGRICULTURAL REPORTING AREAS (A.R.A.)

	A.R.A. 1-3			A.R.A. 4-6			A.R.A. 7		
	Area '000 acres	Yield bu./ acre	Pro- duction '000 bushels	Area '000 acres	Yield bu./ acre	Pro- duction '000 bushels	Area '000 acres	Yield bu./ acre	Pro- duction '000 bushels
1959	2.1	15.4	32.3	11.3	15.9	213.6	17.4	11.8	205.3
1960	33.1	13.1	433.6	42.4	19.3	818.3	94.5	12.1	1,143.4
1961	76.6	16.0	1,225.6	72.8	19.9	1,448.7	157.6	16.6	2,616.2
1962	23.0	14.3	328.9	47.9	19.3	924.4	101.1	13.8	1,395.2
1963	12.1	23.2	280.7	80.4	24.2	1,945.7	130.5	10.3	1,344.2
1964	22.8	18.0	410.4	132.9	19.2	2,551.7	248.3	14.1	3,501.0
1965	44.3	19.5	863.9	246.0	17.7	4,354.2	444.7	9.1	4,046.8
1966	52.8	23.2	1,225.0	280.0	19.1	5,348.0	290.3	14.0	4,064.2
1967	79.3	16.7	1,324.3	391.0	17.9	6,995.9	404.0	10.0	4,040.0
1968	36.8	22.3	820.6	213.0	16.1	3,429.3	199.9	13.9	2,778.6
1969	100.4	20.9	2,098.4	388.0	19.3	7,488.4	327.6	13.4	4,389.8
1970	276.5	19.9	5,502.4	820.1	21.4	17,550.1	503.4	16.2	8,155.1

Source: Department of Agriculture, Province of Alberta.

TABLE 2

ACREAGE, YIELD AND PRODUCTION OF
RAPESEED IN WESTERN CANADA

<u>Province</u>	<u>Acreage</u> <u>'000 Acres</u>	<u>Yield per Acre</u> <u>Bushels</u>	<u>Production</u> <u>'000 Bushels</u>
<u>ALBERTA</u>			
1964	404	16.0	6,460
1965	735	12.9	9,500
1966	610	18.0	11,000
1967	875	13.9	12,200
1968	450	16.0	7,200
1969	816	14.3	11,700
1970	1,600	19.5	31,200
1971 (1)	2,200 *	19.5	31,200
<u>SASKATHCEWAN</u>			
1964	303	17.5	5,300
1965	555	19.2	10,700
1966	620	20.0	12,400
1967	600	17.0	10,200
1968	511	20.2	10,300
1969	1,000	18.2	18,200
1970	2,000 *	21.0	42,000
1971 (2)	2,400		
<u>MANITOBA</u>			
1964	84	17.5	1,470
1965	145	16.6	2,400
1966	158	13.3	2,100
1967	145	15.9	2,300
1968	91	20.9	1,600
1969	196	17.9	3,500
1970	350	18.0	6,300
1971 (2)	500 *		
<u>TOTAL</u>			
1964	791	16.7	13,230
1965	1,435	15.7	22,600
1966	1,525	16.9	25,800
1967	1,620	15.2	24,700
1968	1,052	18.4	19,400
1969	2,012	16.6	33,400
1970	3,950	20.1	79,500
1971 (2)	4,700 *		

* Estimated

Note (1) This figure has been estimated by the Economic Division of the Alberta Department of Agriculture, May 1971.

(2) Estimates given in "Agricultural Statistics" April 5, 1971, by the Department of Agriculture.

Source: Dominion Bureau of Statistics, Catalogue No. 22-002.

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TABLE 4

CANADIAN EXPORTS OF RAPESEED

(tons)

	<u>1963</u>	<u>1964</u>	<u>1965</u>	<u>1966</u>	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>
United Kingdom	1, 820	2, 296	8, 922	4, 055	1, 140		6, 161	6, 409
Belgium-Luxembourg			1. 696	8, 369				8, 316
Finland		2, 240						816
France	241	232	22, 646	21, 710	224	253	3, 001	12, 492
West Germany	19, 223	3, 265	48, 126	60, 228	87, 127	8, 168	4, 637	57, 325
Italy	2, 772	9, 342	22, 429	40, 005	17, 483	6, 753	22, 672	35, 580
Netherlands								100, 775
Norway								6, 074
Sweden								
Switzerland			15, 184					170
Czechoslovakia			9, 921					21, 814
Poland								
U. S. S. R.								
Morocco		2, 800			14, 197	13, 759	14, 112	17, 927
India							16, 072	
Pakistan			22, 462	19, 841			184	32, 227
Australia							23	
Japan	114, 738	62, 492	114, 556	194, 498	234, 546	277, 903	270, 133	370, 732
Mexico								13, 843
U. S. Oceania								
U. S.	382	3, 133	119	141	248	2, 670	438	161
Algeria	13, 888							
Taiwan	2, 205	4, 235			15, 955	52, 306	17, 057	
Spain		1, 003	152	28	120	40		
South Korea						405		
Total Exports	<u>155, 269</u>	<u>91, 038</u>	<u>266, 213</u>	<u>348, 935</u>	<u>371, 040</u>	<u>362, 262</u>	<u>338, 419</u>	<u>700, 733</u>

Source: Export By Commodities, Dominion Bureau of Statistics, Catalogue No. 65-004

Table 5

CANADIAN PRODUCTION OF EDIBLE VEGETABLE OILS BY
TYPE OF OIL SEED

	<u>1963</u>	<u>1964</u>	<u>1965</u>	<u>1966</u> - - %	<u>1967</u> - -	<u>1968</u>	<u>1969</u>	<u>1970</u>
Soybean Oil	85	83	77	69	67	60	57	61
Rapeseed Oil	14	14	20	29	31	36	40	37
Sunflower Seed Oil	1	3	3	2	2	4	3	2

Table 6

CANADIAN CRUSHINGS OF EDIBLE VEGETABLE OIL SEEDS AND
PRODUCTION OF MEAL AND OIL

(millions of pounds)

	1963	1964	1965	1966	1967	1968	1969	1970
Crushings:								
Soybeans	1,089	1,158	1,173	1,203	1,262	1,152	1,252	1,486
Rapeseed	80	87	132	214	251	288	373	391
Sunflower seed	7	21	20	12	17	29	21	23
TOTAL	1,176	1,266	1,325	1,429	1,530	1,469	1,646	1,900
Oil Production:								
Soybeans	187.0	200.0	199.0	198.0	215.5	191.6	212.7	253.8
Rapeseed	31.0	34.0	52.0	84.0	100.9	116.4	149.3	154.3
Sunflower seed	2.4	6.7	6.7	4.4	6.8	11.5	8.4	9.1
TOTAL	220.4	240.7	257.7	286.4	323.2	319.5	370.4	417.2
Meal Production:								
Soybeans	855.0	917.0	932.0	950.0	1,006.0	913.4	989.3	1,165.5
Rapeseed	47.2	51.2	76.5	122.8	142.0	165.4	210.7	232.3
Sunflower seed	2.4	7.1	7.3	4.6	6.4	10.1	8.1	9.2
TOTAL	904.6	975.3	1,015.8	1,077.4	1,154.4	1,088.9	1,208.1	1,407.0

Source: Oils and Fats, Dominion Bureau of Statistics, Catalogue No. 32 - 006.

TABLE 7

CANADIAN PRODUCTION OF EDIBLE FATS AND OILS
(percent of total production)

	<u>1963</u>	<u>1964</u>	<u>1965</u>	<u>1966</u>	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>
Vegetable Oils	31	32	35	38	40	41	43	47
Animal Fats	60	60	57	54	53	52	50	49
Marine Oils	9	8	8	8	7	7	7	4

Table 8

CANADIAN PRODUCTION OF EDIBLE FATS AND OILS

(thousands of pounds)

	<u>1963</u>	<u>1964</u>	<u>1965</u>	<u>1966</u>	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>
Vegetable Oils: (1)								
Soybean Oil	186,750	200,318	198,588	197,867	215,500	191,618	212,707	253,751
Rapeseed Oil	30,711	34,116	51,808	84,447	100,900	116,413	149,315	154,273
Sunflower seed Oil	2,368	6,699	6,658	4,430	6,800	11,472	8,360	9,097
TOTAL	<u>219,829</u>	<u>241,133</u>	<u>257,054</u>	<u>286,744</u>	<u>323,200</u>	<u>319,503</u>	<u>370,382</u>	<u>417,121</u>
Animal Fats:								
Edible tallow	42,130	49,588	49,950	48,370	48,956	49,664	44,240	51,715
Lard	100,038	108,177	96,769	86,302	109,313	103,451	115,361	121,427
Butter (as butter oil) (2)	285,000	285,000	273,000	270,500	267,000	271,000	279,876	262,204
TOTAL	<u>427,168</u>	<u>442,765</u>	<u>419,719</u>	<u>405,172</u>	<u>425,269</u>	<u>424,115</u>	<u>434,711</u>	<u>435,346</u>
Marine Oil:								
Herring	54,200	49,230	48,890	44,397	47,100	49,664	58,798	33,457
Seal	1,534	1,270	2,350	3,294	2,155	2,980	932	1,411
Whale	6,500	9,800	6,198	9,361	7,820	7,520	1,394	2,009
TOTAL	<u>62,234</u>	<u>60,300</u>	<u>57,438</u>	<u>57,052</u>	<u>57,075</u>	<u>60,164</u>	<u>61,124</u>	<u>36,877</u>
TOTAL EDIBLE OIL	709,231	744,198	734,211	748,968	802,575	803,782	866,217	889,344

NOTES: (1) Corn oil and cocoa butter not included. (2) Oil equivalent of butter is assumed to be 80% by weight.

SOURCE: Fats and Oils in Canada Annual Review 1969, Department of Industry, Trade and Commerce, March, 1970
Oils and Fats, Dominion Bureau of Statistics, Catalogue Number 32 - 006.

Dairy Factory Production, Dominion Bureau of Statistics, Catalogue Number 32 - 002.

Table 9

DOMESTIC PRODUCTION OF DEODORIZED OILS -- 1967, 1968, 1969, 1970

(thousands of pounds)

	Margarine Oil				Shortening Oil			
	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>
Vegetable Oils								
Coconut	836	85	-	427	26,723	24,482	25,408	29,086
Corn	x	x	x	5,834	x	x	x	x
Cottonseed	x	x	1,010	997	x	x	14,530	19,893
Palm	x	6,937	8,486	5,523	12,489	11,851	20,639	15,969
Palm Kernel	-	-	55	-	9,445	9,588	9,990	9,913
Peanut	x	-	-	-	x	x	11,627	x
Rapeseed	36,224	32,803	41,674	41,354	28,660	46,023	48,853	43,465
Soybean	53,898	51,209	52,583	59,280	70,678	70,397	82,724	98,766
Sunflower Seed	x	4,721	1,862	44	x	8,265	11,557	5,801
Other Vegetable	x	15	x	5	x	496	x	129
TOTAL	106,029	101,898	110,700	113,465	188,681	197,134	226,875	233,370
Marine Oils								
Herring	32,869	35,655	38,278	22,453	18,802	14,754	20,521	11,004
Seal	(3)	3,178	618	1,411	-	1,054	314	-
Whale	-	266	1,240	1,793	-	293	154	216
Other Marine	(3)	-	-	-	(3)	241	1,125	860
TOTAL	32,869	39,099	40,136	25,658	18,802	16,342	22,114	12,080
Animal Oils								
Lard	3,020	3,785	1,612	2,808	28,454	24,789	21,227	25,403
Oleo, all types	(4)	-	-	-	(4)	5,051	2,694	1,043
Tallow, edible	(4)	(4)	(4)	(4)	44,267	43,500	44,240	51,715
TOTAL	3,020	3,785	1,612	2,808	72,721	73,340	68,160	78,161
TOTAL DEODORIZED OIL	141,918	144,782	152,448	141,931	280,204	286,816	317,149	323,611

(continued . . .)

DOMESTIC PRODUCTION OF DEODORIZED OILS -- 1967, 1968, 1969, 1970
(thousands of pounds)

	Salad Oil				Total Production			
	1967	1968	1969	1970	1967	1968	1969	1970
Vegetable Oils								
Coconut	-	-	-	-	27,559	24,567	25,408	29,513
Corn	x	x	x	x	24,394	24,690	23,503	25,059
Cottonseed	x	x	968	4,643	9,081	7,294	16,508	25,534
Palm	x	27	x	6	19,897	18,815	29,157	21,498
Palm Kernel	-	-	-	-	9,445	9,588	10,045	9,913
Peanut	x	x	6,519	x	26,768	24,763	18,146	16,087
Rapeseed	26,858	37,867	45,008	45,478	101,742	116,692	135,535	130,296
Soybean	29,132	24,568	18,602	24,896	153,708	146,174	153,909	182,943
Sunflower Seed	x	35,339	32,728	22,115	33,043	48,325	46,147	27,960
Other vegetable	-	654	141	-	140	1,165	393	134
TOTAL	111,067	123,041	121,177	122,102	405,777	422,073	458,752	468,937
Marine Oils								
Herring	-	-	-	-	51,671	50,408	58,798	33,457
Seal	-	-	-	-	(3)	4,232	932	1,411
Whale	-	-	-	-	-	559	1,394	2,009
Other Marine	-	-	-	-	(3)	241	1,125	860
TOTAL	-	-	-	-	51,671	55,440	62,250	37,737
Animal Oils								
Lard	-	-	-	-	31,474	28,574	22,839	28,211
Oleo, all types	-	-	-	-	(4)	5,051	2,694	1,043
Tallow, edible	-	-	-	-	44,267	43,500	44,240	51,715
TOTAL	-	-	-	-	75,741	77,125	69,772	80,969
TOTAL DEODORIZED OIL	111,067	123,041	121,177	122,102	533,189	554,639	590,773	587,644

NOTES: x - indicates figures are confidential; - indicates Nil or Zero; (3) small amount included with "Herring";
(4) small amount included with "Lard".

Table 10

PURCHASES OF DEODORIZED OILS, 1967 - 1970

	Canadian				Imports				Total		
	1967	1968	1969	1970	1967	1968	1969	1970	1967	1968	1970
<u>Margarine Oil</u>					- -	(thousands of pounds)	- -	- -			
Vegetable Oils	68,148	71,881	84,210	89,312	8,992	4,914	5,754	8,466	77,140	76,795	89,964
Marine Oils	17,249	19,540	24,498	13,637	10	-	-	-	17,259	19,540	24,498
Animal Oils	1,901	2,521	4,290	1,382	3,749	6,884	5,462	2,176	5,650	9,405	9,752
Total all Oils	87,298	93,942	112,998	104,330	12,751	11,798	11,217	10,643	100,049	105,740	124,215
<u>Shortening Oil</u>											
Vegetable Oil	8,612	9,674	18,641	11,918	79	x	-	x	8,691	9,674 ²	18,641
Marine Oil	93	269	601	-	-	-	-	-	93	269	601
Animal Oil	296	131	201	x	89	-	-	-	385	131	201
Total	9,001	10,075	19,443	x	168	x	-	x	9,169	10,075 ²	19,443
<u>Salad Oil</u>											
Vegetable Oil	22,476	24,995	25,688	25,625	77	x	63	x	22,553	24,995 ²	25,751
Marine Oil	-	-	-	-	-	-	-	-	-	-	-
Animal Oil	-	-	-	-	-	-	-	-	-	-	-
Total	22,476	24,995	25,688	25,625	77	x	63	-	22,553	24,995 ²	25,751
											25,625 ²

Notes: (1) x indicates figures are confidential

(2) totals are not complete due to at least one figure being confidential

Source: Oils and Fats, Dominion Bureau of Statistics, Catalogue No. 32 - 006.

Table 10 A

PURCHASES OF DOMESTIC DEODORIZED VEGETABLE OIL
FOR USE IN MARGARINE
1967 - 1970

<u>Major Vegetable</u>	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>
		(thousands of pounds)		
Coconut	x	x	-	-
Corn	x	x	x	x
Cottonseed	x	x	x	1,968
Palm	4,351	2,968	4,570	2,502
Palm Kernel	x	-	23	x
Peanut	x	-	x	-
Rapeseed	14,954	15,935	23,973	28,457
Soya Bean	34,936	44,089	45,571	48,267
Sunflower seed	x	1,273	1,454	x
Other Vegetable	x	2,256	x	2,415
Total	68,148	71,881	84,210	89,312

Note: x indicates figures confidential.

Source: Oils and Fats, Dominion Bureau of Statistics.
Catalogue No. 32 - 006.

Table 11

CANADIAN IMPORTS OF EDIBLE FATS AND OILS

Percentage of Total Imports

	<u>1964</u>	<u>1965</u>	<u>1966</u>	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>
			---%---				
Vegetable Oils	92	87	82	85	87	86	90
Animal Fats	8	9	15	12	11	12	8
Marine Oils	-	4	3	3	2	2	2

Table 12

CANADIAN IMPORTS OF EDIBLE FATS AND OILS

Expressed as a Percentage of Domestic Production By Type and Total

	<u>1964</u>	<u>1965</u>	<u>1966</u> ---%---	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>
Vegetable Oils	79	80	90	79	71	63	58
Animal Fats	4	5	12	9	8	8	5
Marine Oils	2	14	18	15	7	8	10
Total Imports of Edible Fats & Oils	28	32	42	39	36	31	30

TABLE 13
CANADIAN IMPORTS OF EDIBLE FATS AND OILS
(thousands of pounds)

	1964	1965	1966	1967	1968	1969	1970
<u>Vegetable Oils:</u>							
Soybean oil	34,505	29,946	24,342	23,142	22,315	21,680	50,918
Cotton seed oil	37,422	47,646	32,225	11,459	10,648	19,958	30,767
Corn oil	17,067	14,377	20,308	14,021	15,406	17,355	16,328
Peanut oil	9,647	9,247	31,555	26,623	27,681	18,510	19,471
Coconut oil	39,750	39,618	42,641	44,567	45,141	47,525	47,338
Palm oil	13,112	18,913	26,761	21,622	18,736	36,205	26,728
Palm kernel oil	7,327	9,877	9,182	12,121	12,100	14,411	11,380
Olive oil	3,705	2,731	3,371	4,546	4,013	5,015	4,688
Cocoa butter	13,157	13,185	15,545	12,943	16,546	8,434	13,263
Sunflower seed oil	-	-	(1)	34,289	40,097	34,995	12,018
Vegetable oils and fats (1)	5,256	7,488	38,644	17,436	2,732	2,360	3,419
Vegetable cooking fats and Pack salad oils	4,143	9,254	7,714	2,206	1,569	1,148	1,163
Margarine and shortening	5,129	3,526	4,496	4,134	4,891	5,436	3,971
TOTAL	190,220	205,808	256,784	229,109	221,875	233,032	241,452
<u>Animal Fats:</u>							
Lard	16,001	20,734	28,439	24,112	28,375	30,154	20,811
Butter (oil equivalent)	-	1,350	18,950	7,656	12	2,688	1,550
TOTAL	16,001	22,084	47,389	31,768	28,387	32,842	22,361
<u>Marine Oils:</u>							
Fish and marine oil	980	7,981	10,078	7,867	3,752	4,751	3,671
TOTAL	980	7,981	10,078	7,867	3,752	4,751	3,671
TOTAL EDIBLE OILS & FATS	207,201	235,873	314,251	268,744	254,014	270,625	267,484

NOTES: (1) In 1967 sunflower seed oil was included under vegetable oils and fats.

SOURCE: Fats and Oils in Canada Annual Review 1969, Department of Industry, Trade and Commerce, March, 1970

Imports by Commodities, Dominion Bureau of Statistics, Catalogue No. 65-007

Table 14

CANADIAN EXPORTS OF EDIBLE FATS AND OILS

Percent of Total Exports

	<u>1964</u>	<u>1965</u>	<u>1966</u>	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>
			- - - - %	- - - -			
Vegetable Oils	32	71	90	72	88	65	63
Animal Fats	36	5	3	-	-	-	-
Marine Oils	32	24	7	28	12	35	37

TABLE 15

CANADIAN EXPORTS OF EDIBLE FATS AND OILS
(thousands of pounds)

	<u>1964</u>	<u>1965</u>	<u>1966</u>	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>
<u>Vegetable Oils:</u>							
Soybean Oil	25,017	34,727	29,194	42,932	31,370	33,823	47,097
Rapeseed Oil	391	5	-	-	-	-	-
Margarine and shortening	104	168	228	191	201	267	229
Vegetable oils and fats	<u>458</u>	<u>677</u>	<u>543</u>	<u>1,100</u>	<u>7,024</u>	<u>7,761</u>	<u>20,182</u>
TOTAL	<u>25,970</u>	<u>35,577</u>	<u>29,965</u>	<u>43,223</u>	<u>38,595</u>	<u>41,851</u>	<u>67,508</u>
<u>Animal Fats:</u>							
Lard	34	31	(1)	(1)	(1)	(1)	(1)
Butter (oil equivalent)	<u>29,600</u>	<u>2,370</u>	<u>1,300</u>	<u>44</u>	<u>4</u>	<u>3</u>	<u>5</u>
TOTAL	<u>29,634</u>	<u>2,401</u>	<u>1,300</u>	<u>44</u>	<u>4</u>	<u>3</u>	<u>5</u>
<u>Marine Oils:</u>							
Herring oil	23,291	7,578	790	4,242	337	15,149	37,190
Whale oil	<u>3,161</u>	<u>4,526</u>	<u>1,425</u>	<u>12,549</u>	<u>5,063</u>	<u>7,460</u>	<u>1,912</u>
TOTAL	<u>26,452</u>	<u>12,104</u>	<u>2,215</u>	<u>16,791</u>	<u>5,400</u>	<u>22,609</u>	<u>39,102</u>
TOTAL Edible fats and Oils	82,056	50,082	33,480	60,058	43,999	64,463	106,615

NOTES: (1) Starting in 1966 lard exports are included with margarine and shortening export data.

SOURCE: Fats and Oils in Canada Annual Review 1969,
Department of Industry, Trade and Commerce,
March, 1970
Exports by Commodities, Dominion Bureau of Statistics,
Catalogue Number 65 - 004.

TOTAL SUPPLY OF EDIBLE FATS AND OILS IN CANADA
(millions of pounds)

	<u>1964</u>	<u>1965</u>	<u>1966</u>	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>
<u>Vegetable Oils</u>							
Domestic Production	240.7	257.7	286.4	323.2	319.5	370.4	417.1
Plus Imports	190.2	205.8	256.8	229.1	221.9	233.0	241.5
Minus Exports	(26.0)	(35.6)	(30.0)	(43.2)	(38.6)	(41.8)	(67.5)
Net Supply	404.9	427.9	513.2	509.1	502.8	561.6	591.1
<u>Animal Fats:</u>							
Domestic Production	442.7	419.7	405.2	425.2	424.1	434.7	435.3
Plus Imports	16.0	22.1	47.4	31.8	28.4	32.8	22.4
Minus Exports	(29.6)	(2.4)	(1.3)	(-) ²	(-)	(-)	(-)
Net Supply	429.1	439.4	451.3	457.0	452.5	467.5	457.7
<u>Marine Oils:</u>							
Domestic Production	60.3	57.4	57.1	57.0	60.2	61.1	36.9
Plus Imports	1.0	8.0	10.1	7.9	3.8	4.7	3.7
Minus Exports	(26.5)	(12.1)	(2.2)	(16.8)	(5.4)	(22.6)	(39.1)
Net Supply	34.8	53.3	65.0	48.1	58.6	43.2	1.5
<u>Total Supply of Edible Fats and Oils (1)</u>							
Domestic Production	743.7	734.8	748.7	802.6	803.8	866.2	889.3
Plus Imports	207.2	235.9	314.3	268.8	254.1	270.6	267.5
Minus Exports	(82.1)	(50.1)	(33.5)	(60.0)	(44.0)	(64.5)	(106.6)
Net Supply	868.8	920.6	1,029.5	1,011.4	1,013.9	1,072.3	1,050.2

(1) Inventory changes have not been included.

(2) Dash indicates total is insignificant.

() Brackets indicate exports are to be subtracted.

Source: Oils and Fats, Dominion Bureau of Statistics, Catalogue Number 32-006

Exports by Commodities, Dominion Bureau of Statistics, Catalogue Number 65-004

Imports by Commodities, Dominion Bureau of Statistics, Catalogue Number 65-007

Table 17

APPARENT PER CAPITA DOMESTIC DISAPPEARANCE OF
EDIBLE OILS AND FATS

	<u>1964</u>	<u>1965</u>	<u>1966</u>	<u>1967</u>	<u>1968</u>	<u>1969</u> (1)
			-- pounds per capita per annum --			
I By Retail Weight:						
Margarine	8.9	8.7	8.9	9.1	9.4	9.7
Lard	7.7	7.4	6.9	7.8	7.8	- (2)
Shortening & Shortening oils	10.3	9.9	12.6	13.8	14.1	15.2
Other oils & fats	4.8	4.7	6.3	5.4	6.0	5.8
Butter	19.0	18.6	17.8	16.9	16.5	15.7
TOTAL	50.7	49.3	52.5	53.0	53.8	46.4 (2)
II By Fat Content:						
Margarine	7.2	7.0	7.2	7.4	7.6	7.9
Lard	7.7	7.4	6.9	7.8	7.8	- (2)
Shortening & Shortening oils	10.3	9.9	12.6 (1)	13.8 (1)	14.1 (3)	15.2
Other oils & fats	4.8	4.7	6.3 (1)	5.4 (1)	6.0 (3)	5.8
Butter	15.4	15.1	14.4	13.7	13.4	12.7
TOTAL	45.4	44.1	47.4	48.1	48.9	41.6 (2)

Notes: (1) Preliminary estimate

(2) Lard no longer included

(3) Not comparable with previous years, due to increased coverage.

Source: Apparent per capita domestic disappearance of food in Canada,
Dominion Bureau of Statistics, Catalogue No. 32-226

Table 18

ESTIMATED MARKET FOR EDIBLE OILS BY PROVINCE - 1970
(thousands of pounds)

	<u>June 1, 1970</u> <u>Population</u> ('000)	<u>Margarine</u>	<u>Shortening</u>	<u>Other Oils</u> <u>and Fats</u>	<u>Butter</u>	<u>Total</u>
Newfoundland	518	4,092	7,874	3,004	6,579	21,549
Prince Edward Island	110	859	1,672	638	1,397	4,576
Nova Scotia	766	6,051	11,643	4,443	9,728	31,866
New Brunswick	624	4,930	9,485	3,619	7,925	25,958
Total Maritimes	2,018	15,942	30,674	11,704	25,629	83,949
Quebec	6,013	47,503	91,398	34,875	76,365	250,141
Ontario	7,637	60,332	116,082	44,295	96,990	317,699
Total Eastern	13,650	107,835	207,480	79,170	173,355	567,840
Manitoba	981	7,750	14,911	5,690	12,459	40,810
Saskatchewan	942	7,442	14,318	5,464	11,963	39,187
Alberta	1,600	12,640	24,320	9,280	20,320	66,560
British Columbia	2,137	16,882	32,482	12,395	27,140	88,899
Total Western	5,660	44,714	86,031	32,829	71,882	235,456
Total Canada	21,328	168,491	324,185	123,703	270,866	887,245

Source: Economic Research Branch.

Table 19

MAJOR USES OF RAPESEED OIL EXPRESSED AS
A PERCENT OF TOTAL PRODUCTION

	<u>1966</u>	<u>1967</u>	<u>1968</u> - - % - -	<u>1969</u>	<u>1970</u>
Margarine Oil	(1)	35.6	28.1	30.7	31.7
Shortening Oil	36.6	38.0	39.4	36.1	33.4
Salad Oil	(1)	26.4	32.5	33.2	34.9

Note: (1) Figures are confidential

Source: Oils and Fats, Dominion Bureau of Statistics,
Catalogue No. 32 - 006.

Table 21

ESTIMATE OF HIGH PROTEIN FEED SUPPLIES
AVAILABLE IN CANADA

	- (tons) -		
	<u>1968</u>	<u>1969</u>	<u>1970²</u>
Linseed Oil Meal	29,400	29,500	34,700
Soybean Oil Meal	535,200	608,500	684,800
Rapeseed Oil Meal	82,700	107,200	116,200
Malt Sprouts, Gluten Feed, Brewers' and Distillers' dried grains and Other Oil Meals ¹	<u>211,560</u>	<u>208,753</u>	<u>218,394</u>
Totals, vegetable protein	858,860	953,953	1,054,094
Fishmeal	69,600	61,900	45,400
Packing House by-products	232,000	255,000	247,000
Skim milk, buttermilk & whey powders	<u>19,600</u>	<u>19,800</u>	<u>19,800</u>
Totals, animal protein	<u>321,200</u>	<u>336,700</u>	<u>312,200</u>
Totals, protein supplies	1,180,060	1,290,653	1,366,294

¹ Other Oil Meals include sunflower, cottonseed, and n. e. s.

² Preliminary and partly estimated.

Source: Coarse Grains Quarterly, Dominion Bureau of Statistics.

ESTIMATED COMPLETE FIELD POTENTIAL FROM PRE-MIXES AND
CONCENTRATES, TOTAL ESTIMATED FEED POTENTIAL FROM SHIPMENTS
OF PRE-MIXES, CONCENTRATES AND COMPLETE FEEDS BY MANUFACTURERS
ACCORDING TO DESTINATION

DESTINATION	YEAR (tons of feed)			
	1966	1967	1968	1969
Newfoundland	25,379	27,657	29,438	33,788
Prince Edward Island	94,930	75,921	72,329	75,900
Nova Scotia	164,013	174,778	174,196	179,116
New Brunswick	94,795	98,433	105,877	108,270
Quebec	1,608,112	1,734,944	1,781,383	1,874,146
Ontario	2,189,386	2,397,348	2,355,662	2,528,716
Total Eastern Canada	4,176,615	4,509,081	4,518,885	4,799,936
Manitoba	369,768	493,580	458,513	487,023
Saskatchewan	199,076	228,222	228,120	252,334
Alberta	1,011,500	1,104,955	1,153,056	1,235,215
British Columbia	279,964	285,484	257,545	297,162
Total Western Canada	1,860,308	2,112,241	2,197,234	2,271,734
TOTAL ALL CANADA	6,036,923	6,621,322	6,616,119	7,071,670

NOTE: This table combines the total finished feed equivalent available from the volume of pre-mixes, concentrated feeds and the total secondary or finished feeds manufactured from raw ingredients.

This material is shown geographically by destination of manufacturers shipments.

SOURCE: Shipments of Prepared Stock and Poultry Feeds, Dominion Bureau of Statistics,
Catalogue No. 32-004

TABLE 23

NUMBER OF HOGS ON FARMS IN CANADA AS OF SEPTEMBER 1st

PROVINCE	YEAR (thousands of animals)				
	1965	1966	1967	1968	1969
Prince Edward Island	71.0	91.0	93.0	88.0	97.0
Nova Scotia	61.0	62.0	62.0	74.0	68.0
New Brunswick	40.0	36.0	41.0	50.0	53.0
Quebec	1,010.0	1,274.0	1,380.0	1,161.0	1,115.0
Ontario	1,960.0	2,048.0	2,080.0	1,965.0	2,050.0
Total Eastern Canada	3,142.0	3,511.0	3,656.0	3,338.0	3,383.0
Manitoba	460.0	582.0	610.0	560.0	650.0
Saskatchewan	430.0	547.0	617.0	540.0	680.0
Alberta	1,300.0	1,248.0	1,325.0	1,288.0	1,332.0
British Columbia	38.0	35.0	43.0	43.0	45.0
Total Western Canada	2,228.0	2,412.0	2,595.0	2,431.0	2,707.0
TOTAL ALL CANADA	5,370.0	5,923.0	6,251.0	5,769.0	6,090.0

SOURCE: Report on Livestock Survey
Dominion Bureau of Statistics
Catalogue No. 23-005

POULTRY ON FARMS IN CANADA AS OF JUNE 1st

PROVINCE	YEAR				
	(thousands of animals)				
	1965	1966	1967	1968	1969
Prince Edward Island	453.3	365.5	346.1	324.0	332.0
Nova Scotia	2,281.9	2,841.5	2,793.4	2,677.4	2,924.3
New Brunswick	1,182.4	1,397.6	1,406.8	1,447.7	1,566.7
Quebec	16,068.0	20,013.1	21,591.0	21,697.0	23,997.0
Ontario	27,260.0	29,549.7	31,333.0	29,392.0	31,473.0
Total Eastern Canada	47,245.6	54,167.4	57,470.3	55,538.1	60,298.0
Manitoba	6,960.0	7,100.7	7,420.0	7,415.0	8,345.0
Saskatchewan	6,150.0	6,278.3	6,530.0	5,805.0	6,050.0
Alberta	8,855.0	9,562.9	9,665.0	9,145.0	9,600.0
British Columbia	6,758.0	7,830.8	8,557.0	7,972.0	8,180.0
Total Western Canada	28,723.0	30,772.7	32,172.0	30,337.0	32,175.0
TOTAL ALL CANADA	75,968.6	84,940.1	89,642.3	85,875.1	92,473.0

Source: Report on the Poultry Survey,
Dominion Bureau of Statistics,
Catalogue No. 23-006.

CATTLE ON FARMS IN CANADA AS OF JUNE 1st

PROVINCE	YEAR (thousands of animals)				
	1965	1966	1967	1968	1969
Prince Edward Island	130.0	125.2	122.0	118.0	117.0
Nova Scotia	157.0	147.6	146.0	144.0	141.0
New Brunswick	150.0	136.5	131.0	130.0	128.0
Quebec	1,990.0	1,797.6	1,796.0	1,847.0	1,895.0
Ontario	3,344.0	3,137.0	3,165.0	3,220.0	3,204.0
Total Eastern Canada	5,771.0	5,343.9	5,360.0	5,459.0	5,485.0
Manitoba	1,150.0	1,151.2	1,112.0	1,037.0	1,019.0
Saskatchewan	2,340.0	2,398.0	2,368.0	2,223.0	2,180.0
Alberta	3,195.0	3,439.7	3,405.0	3,322.0	3,380.0
British Columbia	545.0	546.0	536.0	525.0	522.0
Total Western Canada	7,230.0	7,534.9	7,421.0	7,107.0	7,101.0
Total All Canada	13,001.0	12,878.8	12,781.0	12,566.0	12,586.0

Source: Report on Livestock Surveys

Dominion Bureau of Statistics

Catalogue No. 23-004

TABLE 26

EDIBLE OIL CONSUMPTION IN JAPAN
('000 short tons)

<u>Year</u>	<u>Cooking Oil</u>	<u>Margarine and Shortening</u>	<u>Other Food Uses</u>	<u>Total Consumption</u>
1963	454	129	110	693
1964	495	133	137	765
1965	511	138	141	790
1966	528	162	206	896
1967	561	172	230	963
1968	603	186	239	1,028
1969	606	211	271	1,088
1970	642	204	297	1,143

Source: Department of Industry, Trade and Commerce.

Table 28

ESTIMATED WORLD PRODUCTION OF OILS AND FATS --
Annual 1964-1970, Forecast 1971 (1)

Commodity	1964	1965	1966	1967	1968	1969	1970	Forecast (2) 1971
	(thousands of short tons)							
Edible vegetable oils: (3)								
Cottonseed	2,645	2,765	2,830	2,475	2,395	2,855	2,655	2,720
Peanut	3,310	3,630	3,515	3,560	3,670	3,305	3,435	3,770
Soybean	4,360	4,390	5,165	5,630	5,875	6,560	6,710	6,880
Sunflower	2,520	3,445	3,255	3,835	4,060	4,135	4,210	4,230
Rapeseed	1,230	1,640	1,605	1,855	2,080	1,735	2,090	2,580
Sesame	635	670	620	600	655	625	635	690
Safflower	230	205	225	280	295	195	245	260
Olive(4)	1,875	1,105	1,360	1,325	1,475	1,525	1,380	1,485
Corn	255	270	275	280	270	280	290	295
Totals	17,060	18,120	18,850	19,840	20,775	21,215	21,650	22,910
Palm oils:(5)								
Coconut	2,500	2,355	2,490	2,365	2,315	2,155	2,210	2,250
Palm kernel	455	465	475	395	405	430	490	515
Palm	1,320	1,345	1,400	1,285	1,470	1,620	1,885	1,985
Babassu kernel (6)	57	60	73	57	72	95	90	90
Totals	4,332	4,225	4,438	4,102	4,262	4,300	4,675	4,840
Industrial oils:								
Linseed (7)	1,175	1,190	1,235	1,015	860	1,015	1,230	1,415
Castor (7)	395	365	360	400	395	425	350	420
Oiticica	19	13	20	2	32	1	14	7
Tung	151	163	133	165	139	145	129	151
Totals	1,740	1,731	1,748	1,582	1,426	1,586	1,723	1,993

(Continued)

Table 28 (Continuation)

	<u>1964</u>	<u>1965</u>	<u>1966</u>	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>	<u>Forecast (2)</u>	<u>1971</u>
					(thousands of short tons)				
<u>Animal fats:</u>									
Butter (fat content)	4,455	4,740	4,650	4,835	5,180	5,120	5,050		5,000
Lard (8)	4,165	4,380	4,280	4,425	4,380	4,275	4,310		4,350
Tallow and grease	4,295	4,190	4,350	4,620	4,670	4,680	4,700		4,750
Totals	<u>12,915</u>	<u>13,310</u>	<u>13,280</u>	<u>13,880</u>	<u>14,230</u>	<u>14,075</u>	<u>14,060</u>		<u>14,100</u>
<u>Marine oils:</u>									
Whale	249	218	126	113	102	87	88		88
Sperm whale	165	170	161	165	134	144	145		143
Fish (including liver)	837	867	987	1,193	1,287	1,126	1,147		1,210
Totals	<u>37,298</u>	<u>1,255</u>	<u>1,274</u>	<u>1,471</u>	<u>1,523</u>	<u>1,357</u>	<u>1,380</u>		<u>1,441</u>
Grand totals	<u>37,298</u>	<u>38,641</u>	<u>39,590</u>	<u>40,875</u>	<u>42,216</u>	<u>42,533</u>	<u>43,488</u>		<u>45,284</u>

(1) Years indicated are those in which the predominant share of the given oil was produced. (2) Preliminary.

(3) Revised series for all commodities except olive and corn oils. (4) Excludes sulphur oil. (5) Estimated on the basis of exports and information available on consumption in the various producing areas. (6) Mill production 1964-65 only. (7) Revised series. (8) Rendered lard only in most countries.

Source: Oilseeds Review, Dominion Bureau of Statistics, Catalogue No. 22-006.

Table 29

WORLD NET EXPORTS OF OILSEEDS, OILS
AND FATS, PRIMARILY FOR FOOD

(thousand short tons, oil basis)

	<u>1965</u>	<u>1966</u>	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u> ¹
<u>Liquid Vegetable</u>						
Soybeans and oil	1,981	1,926	2,163	2,206	2,302	3,250
Cottonseed and oil	417	284	206	245	309	338
Peanuts and oil	1,043	1,181	1,020	1,084	843	748
Sunflowerseed and oil	452	822	1,231	1,299	1,190	890
Rapeseed and oil	302	403	423	448	409	482
Sesame seed	74	86	93	95	108	103
Olive oil ²	119	191	208	155	244	266
Total, liquid vegetable	<u>4,374</u>	<u>4,893</u>	<u>5,344</u>	<u>5,532</u>	<u>5,405</u>	<u>6,077</u>
<u>Palm</u>						
Copra and coconut oil	1,427	1,526	1,292	1,381	1,168	1,209
Palm kernels and oil	396	416	317	346	356	371
Palm oil	589	696	549	705	791	806
Total, palm	<u>2,412</u>	<u>2,638</u>	<u>2,158</u>	<u>2,432</u>	<u>2,315</u>	<u>2,386</u>
<u>Animal Fats, Edible</u>						
Butter (82%)	540	561	615	617	618	679
Lard	321	337	362	428	432	448
Total, edible animal	<u>861</u>	<u>898</u>	<u>977</u>	<u>1,045</u>	<u>1,050</u>	<u>1,127</u>
<u>Marine Oils, Edible</u>						
Fish oils	496	563	725	823	711	595
Whale oil (production)	218	127	112	101	83	83
Total, edible marine	<u>714</u>	<u>690</u>	<u>837</u>	<u>924</u>	<u>794</u>	<u>678</u>
<u>Grand Total</u>	8,361	9,119	9,316	9,933	9,564	10,268

¹ Preliminary figures.

² Including residue oil.

Sources: 1) 1965, 1966 - Fats and Oils in Canada, Annual Review, 1969,
Dept. of Industry, Trade and Commerce, March, 1970.

2) 1967 - 1970 - Oil World Semi-Annual, Hamburg, May, 1971.

Table 30

WORLD NET EXPORTS OILSEED MEALS AND FISH MEALS

(thousands of short tons)

	1 9 6 7				1 9 6 8			
	Seed ¹	Meal	Total	Protein ²	Seed ¹	Meal	Total	Protein ²
Soybean	7,064	2,890	9,954	4,579	7,607	3,256	10,863	4,997
Cottonseed	269	1,375	1,644	674	282	1,343	1,625	666
Peanut	750	1,545	2,295	1,194	783	1,664	2,447	1,272
Sunflowerseed	213	745	958	412	223	669	892	384
Rapeseed	401	89	490	166	467	115	582	198
Sesame	103	25	128	51	105	26	131	53
Copra	473	449	922	203	480	451	931	205
Palm Kernel	216	176	392	71	239	165	404	73
Linseed	379	550	929	334	375	450	825	297
Unspecified ³	204 ⁴	261	465	149	165 ⁴	351	516	174
Total	10,072	8,105	18,177	7,833	10,726	8,490	19,216	8,319
Fish Meal	-	3,176	3,176	2,065	-	3,839	3,839	2,496
Grand Total	10,072	11,281	21,353	9,898	10,726	12,329	23,055	10,815

continued . . .

Table 30 (Continued . .)

(thousands of short tons)

1 9 6 9

1 9 7 0

	Seed ¹	Meal	Total	Protein ²	Seed ¹	Meal	Total	Protein ²
Soybean	8,158	3,649	11,807	5,431	10,976	4,630	15,606	7,178
Cottonseed	351	1,491	1,842	755	351	1,369	1,720	705
Peanut	611	1,316	1,927	1,002	419	1,562	1,981	1,030
Sunflowerseed	212	595	807	347	194	648	842	363
Rapeseed	461	138	599	204	541	140	681	231
Sesame	119	46	165	66	112	34	146	58
Copra	417	454	871	192	356	543	899	198
Palm Kernel	255	196	451	82	267	193	460	83
Linseed	446	511	957	345	419	610	1,029	370
Unspecified ³	138 ⁴	394	532	183	176 ⁴	401	577	196
Total	11,168	8,790	19,958	8,607	13,811	10,130	23,941	10,412
Fish Meal	-	3,215	3,215	2,090	-	3,138	3,138	2,040
Grand Total	11,168	12,005	23,173	10,697	13,811	13,268	27,079	12,452

¹ Oilseed meal equivalents of oilseed net exports (peanuts: for crush only) or net exports availabilities, respectively.

² Average raw protein content of oilcake/ expeller/meal.

³ Except castor bean.

⁴ Mainly safflowerseed.

Source: Oil World Semi-Annual, Hamburg, May, 1971.

ESTIMATED CANADIAN CRUSHING OF DOMESTIC SOYBEANS
1964-65 to 1968-69

METHOD I

	1964-65	1965-66	1966-67	1967-68	1968-69
Domestic Production of Soybeans(bu.)	6,976,000	8,030,000	9,012,000	8,091,000	9,027,000
Exports(bu.)	3,179,108	2,152,373	3,599,042	1,570,763	1,122,895
Gross Amount of Soybeans available for crushing (bu.)	3,796,892	5,877,627	5,412,958	6,520,237	7,904,105
% of Total Soybeans crushed that are grown in Canada ..(%)	19.4	28.5	27.2	32.9	39.4

METHOD II

Total Domestic Crushing of Soybeans(bu.)	19,540,984	20,653,645	19,876,294	19,846,111	20,054,212
Imports(bu.)	16,456,930	17,057,790	16,294,633	13,328,316	12,469,497
Canadian Soybeans Crushed(bu.)	3,084,054	3,595,855	3,581,661	6,517,795	7,584,715
% of Total Soybeans crushed that are grown in Canada (%)	15.8	17.4	18.0	32.8	37.8

Source: Economic Research Branch.

